



Certificate of Analysis

Number: 2500-22050177-007A

Greeley Laboratory

2881 S. 31st Ave

Unit 6-8

Greeley, CO 80631

Tony Walton
Civitas Resources
4301 Industrial Parkway
Evans, CO 80620

May 26, 2022

Station Name: PH 11-14-22HNB GPM
Station Number: 68011425
Station Location: PH F-22 Pad
Cylinder No: 948
Analyzed: 05/26/2022 10:11:58 by SO

Sampled By: Paul Renslow
Sample Of: Gas Spot
Sample Date: 05/19/2022 11:45
Sample Conditions: 117.55 psig, @ 84.92 °F
Method: GPA-2261M

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia	
Hydrogen Sulfide	0.0001	NIL		GPM TOTAL C2+
Nitrogen	0.7123	0.858		GPM TOTAL C3+
Carbon Dioxide	2.4595	4.657		GPM TOTAL iC5+
Methane	71.2950	49.204		
Ethane	12.1814	15.758	3.271	
Propane	8.3709	15.880	2.316	
Iso-butane	0.8479	2.120	0.279	
n-Butane	2.7766	6.943	0.879	
Iso-pentane	0.4228	1.312	0.155	
n-Pentane	0.5237	1.625	0.191	
Hexanes Plus	0.4098	1.643	0.180	
	100.0000	100.000	7.271	

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.8058	3.2176
Calculated Molecular Weight	23.24	93.19
Compressibility Factor	0.9957	

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.73 psia & 60°F

Real Gas Dry BTU	1332	5141
Water Sat. Gas Base BTU	1310	5052

Comments: H2S Field Content 1.0 ppm

Ryleigh Jacobs

Data reviewed by: Ryleigh Jacobs, Laboratory Analyst

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.